



RECEIPT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: B. Davis et al.
Serial No.: 09/752,861
Filed: December 28, 2000
Group Art Unit: 2152
Examiner: Unassigned
Title: NUMA SYSTEM RESOURCE DESCRIPTORS INCLUDING
PERFORMANCE CHARACTERISTICS

Assistant Commissioner for Patents
Washington, D.C. 20231

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Technology Center 2100


REQUEST FOR CORRECTED FILING RECEIPT

Applicant has received the official Filing Receipt for the above-referenced patent application, copy attached as Exhibit A. A corrected filing receipt is requested for the following point of information:

The Attorney Docket No. as typed on the Filing Receipt (i.e., BEA9-2000-0016-US1) is incorrect. A copy of the first page of the original application that was filed on December 28, 2000 is enclosed at Exhibit B which correctly states the Attorney Docket No. As BEA9-2000-0015-US1. Specifically, the number "0016" needs to be changed to "0015".

Applicant respectfully requests that a corrected filing receipt be issued and forwarded to applicant's attorney for this application.

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/752,861	12/28/2000	2152	854	BEA9-2000-006US1	7	28	3

CONFIRMATION NO. 1468

FILING RECEIPT

IBM



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FEB 27 2001

LEGAL DEPT.

Date Mailed: 02/16/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

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Assignment For Published Patent Application

International Business Machines Corporation, Armonk, NY;

Continuing Data as Claimed by Applicant

Foreign Applications

If Required, Foreign Filing License Granted 02/15/2001

Projected Publication Date: To Be Determined - pending completion of Corrected Papers

Non-Publication Request: No

Early Publication Request: No

IBM BEA IPLaw

Calendared for: _____

Folder: 2/27/01 Kathy's KA

WPTS: 2/27/01 Pryor's PAS

Exhibit A
Page 1

Title

Numa system resource descriptors including performance characteristics

Preliminary Class

709

Data entry by : HAILE, MENTUAB

Team : OIPE

Date: 02/16/2001





NUMA SYSTEM RESOURCE DESCRIPTORS INCLUDING PERFORMANCE CHARACTERISTICS

BACKGROUND OF THE INVENTION

Technical Field

5 This invention relates to a multiprocessor computer system and method for enhancing system performance. More specifically, the system provides for efficient allocation of system resources by determining latency between resources.

Description Of The Prior Art

10 Multiprocessor systems by definition contain multiple processors, also referred to herein as CPUs, that can execute multiple processes or multiple threads within a single process simultaneously in a manner known as parallel computing. In general, multiprocessor systems execute multiple processes or threads faster than conventional uniprocessor systems that can execute programs sequentially. The actual performance advantage is a function of a number of factors, including the degree to which parts of a
15 multithreaded process and/or multiple distinct processes can be executed in parallel and the architecture of the particular multiprocessor system at hand. The degree to which processes can be executed in parallel depends, in part, on the extent to which they compete for exclusive access to shared memory resources.

The architecture of shared memory multiprocessor systems may be classified by
20 how their memory is physically organized. In distributed shared memory (DSM) machines, the memory is divided into modules physically placed near one or more processors, typically on a processor node. Although all of the memory modules are globally accessible, a processor can access local memory on its node faster than remote memory on other nodes. Because the memory access time differs based on memory location, such systems
25 are also called non-uniform memory access (NUMA) machines. In centralized shared memory machines, on the other hand, the memory is physically in one location.

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Bib Data Sheet

CONFIRMATION NO. 1468

SERIAL NUMBER 09/752,861	FILING DATE 12/28/2000 RULE	CLASS 709	GROUP ART UNIT 2152 2188	ATTORNEY DOCKET NO. BEA9-2000-0015-US1
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 Douglas Miller, DuPont, WA;

 ** CONTINUING DATA *****
 NONE GJP

 ** FOREIGN APPLICATIONS *****
 NONE GJP

 IF REQUIRED, FOREIGN FILING LICENSE
 GRANTED ** 02/15/2001

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY OR	SHEETS DRAWING 11	TOTAL CLAIMS 28	INDEPENDENT CLAIMS 3
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged Examiner's Signature _____ Initials _____				

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TITLE

Numa system resource descriptors including performance characteristics

FILING FEE RECEIVED 854	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees
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